



Black Lowe & Graham PLLC (206) 381-3300  
 Atty Docket: BING-1-1046  
 In Re: Black et al.  
 Application Serial No.: 10/717,736  
 Filed: November 20, 2003  
 Title: COMPONENT HEALTH ASSESSMENT FOR RECONFIGURABLE  
 CONTROL  
 Sheet 1 of 5

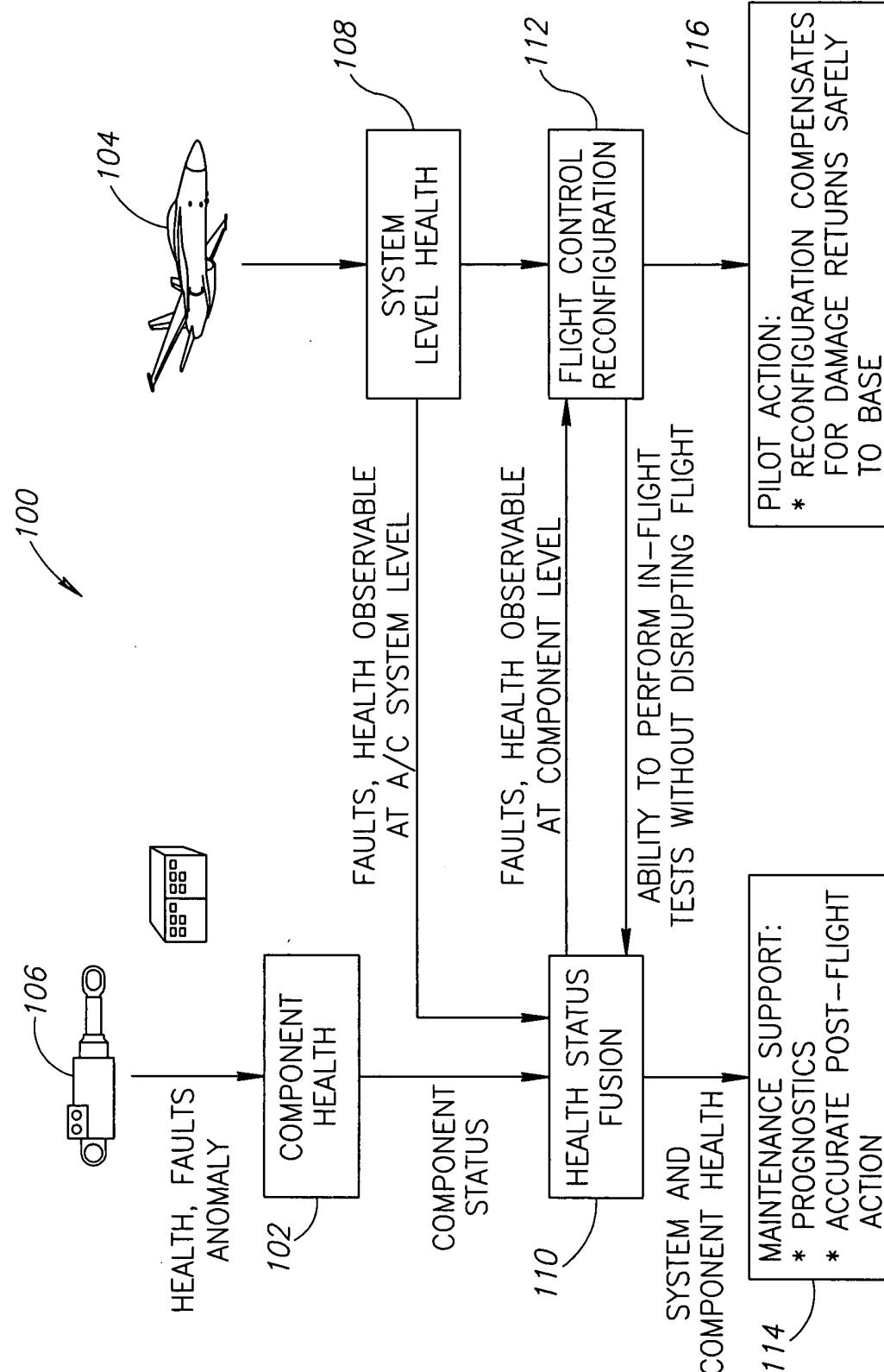


FIG. 1

1/12, 1/6 HZ SINE WAVE PROFILE – TEST ARTICLE: S/N 3315  
 FLUID TEMP: 100 DEG F, LOAD SYSTEM: OFF, ELECTROMAGNET: 0%  
 EHVS – ROD END: S/N N5463, TAIL END: S/N N5450

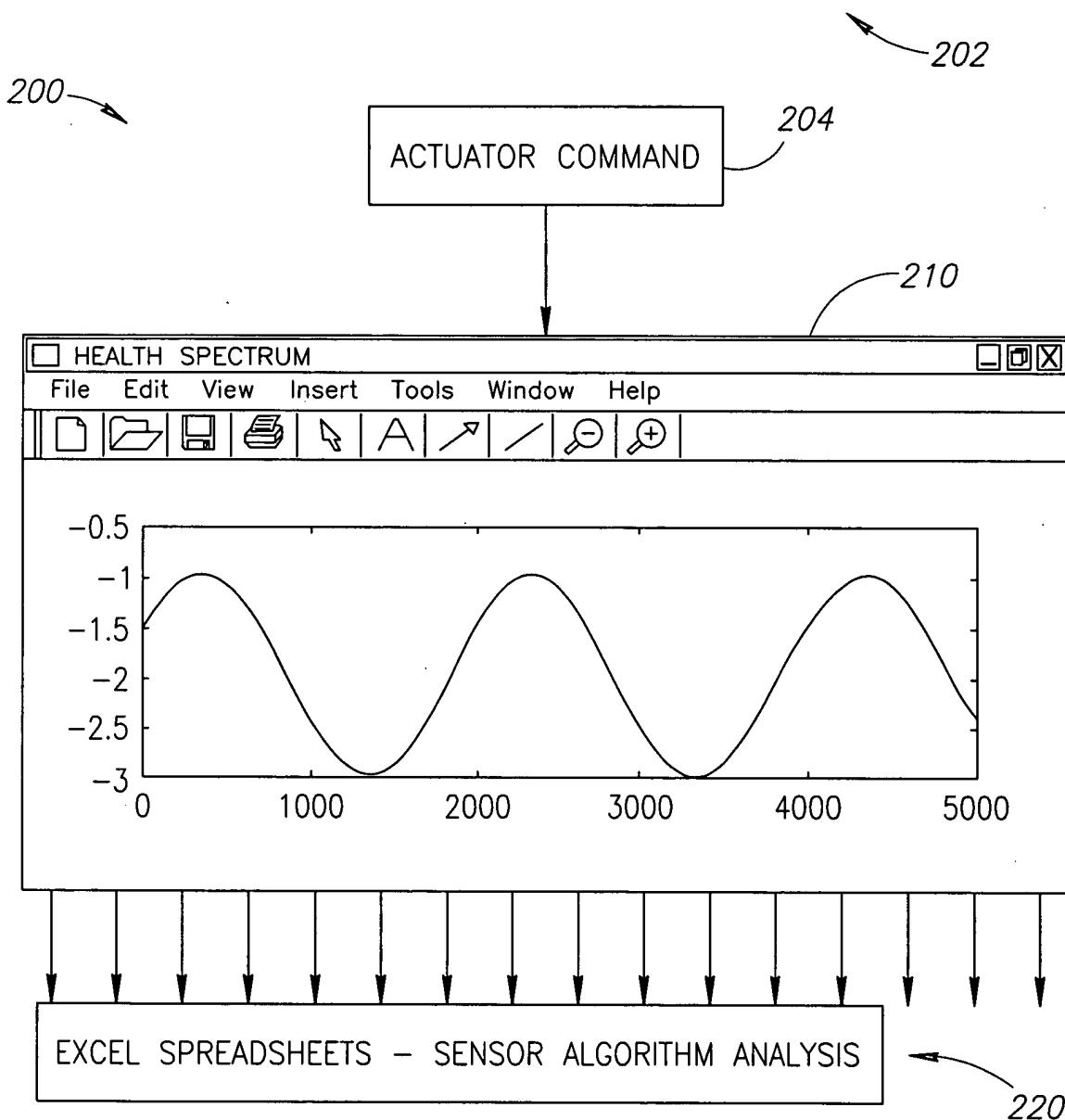


FIG.2

SENSOR PARAMETERS

210

- TIME > TIME [seconds]
- 8237 > CH.1 MAIN RAM POSITION [inches]
- 8238 > CH.2 MAIN RAM POSITION [inches]
- 8239 > CH. 1 MCV POSITION [inches]
- 8240 > CH. 2 MCV POSITION [inches]
- 8241 > CH. 1 SERVOAMP CURRENT [milliamps]
- 8242 > CH. 2 SERVOAMP CURRENT [milliamps]
- 8243 > CH. 3 SERVPAMP CURRENT [milliamps]
- 8244 > CH. 4 SERVOAMP CURRENT [milliamps]
- 8245 > CH. 2 FAIL SENSOR NO. 1 LVDT POSITION [Vrms]
- 8246 > CH. 2 FAIL SENSOR NO. 2 LVDT POSITION [Vrms]
- 8201 > STABILATOR ACTUATOR COMMAND [INCHES]
- 8268 > LOAD ACTUATOR COMMAND [pounds]
- 8312 > LOAD ACTUATOR LOAD CELL FORCE [LBS]
- 8430 > HYDRAULIC SYSTEM 1 FLUID TEMPERATURE [deg F]
- 8431 > HYDRAULIC SYSTEM 2 FLUID TEMPERATURE [deg F]
- 8432 > LOAD CYLINDER HYDRAULIC SUPPLY TEMPERATURE [deg F]
- 8433 > LOAD CYLINDER HYDRAULIC RETURN TEMPERATURE [deg F]
- 8015 > STABILATOR ACTUATOR SYSTEM 1 INLET PRESSURE [psi]
- 8016 > STABILATOR ACTUATOR SYSTEM 1 OUTLET PRESSURE [psi]
- 8013 > STABILATOR ACTUATOR SYSTEM 2 INLET PRESSURE [psi]
- 8014 > STABILATOR ACTUATOR SYSTEM 2 OUTLET PRESSURE [psi]

FIG.3

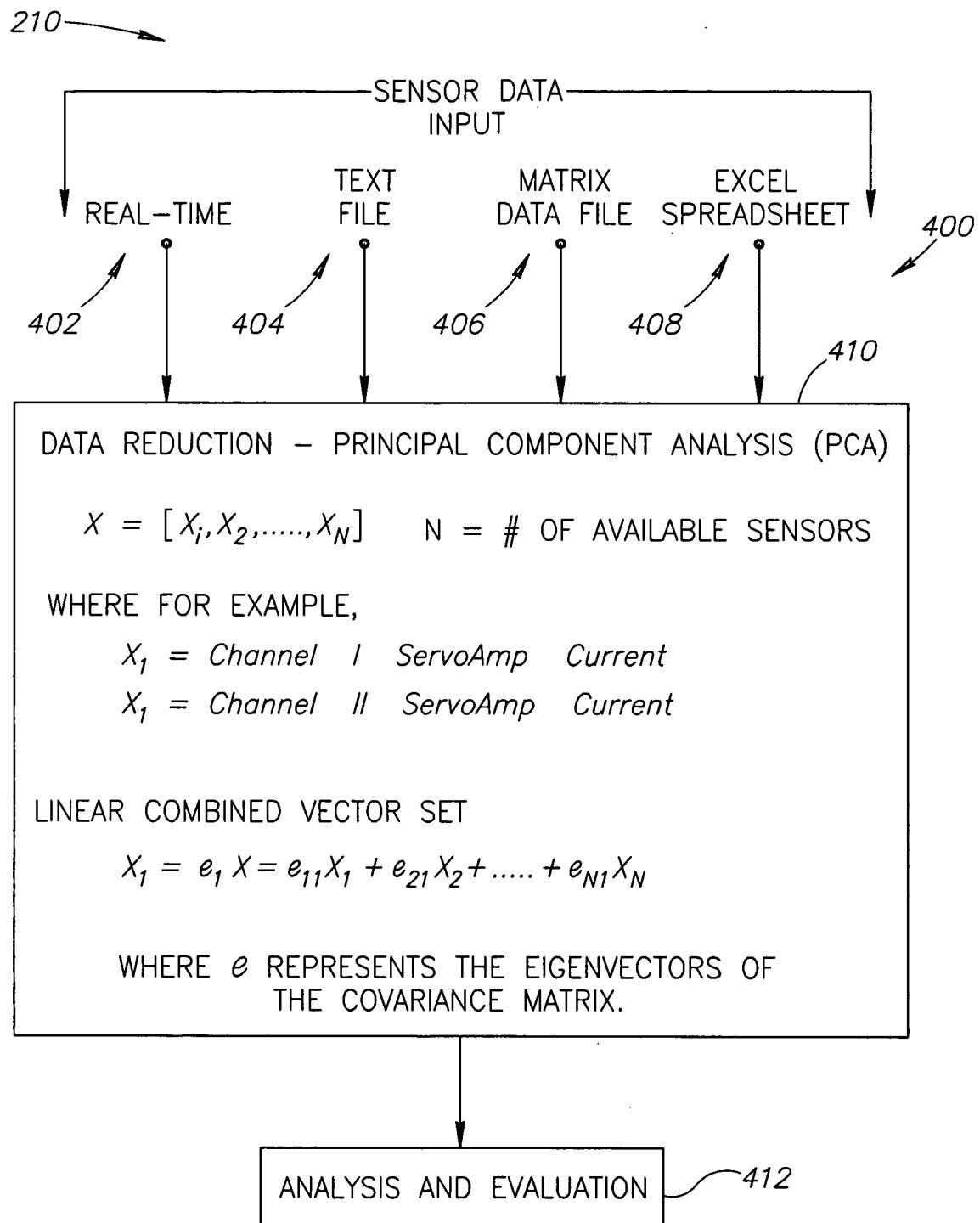


FIG.4

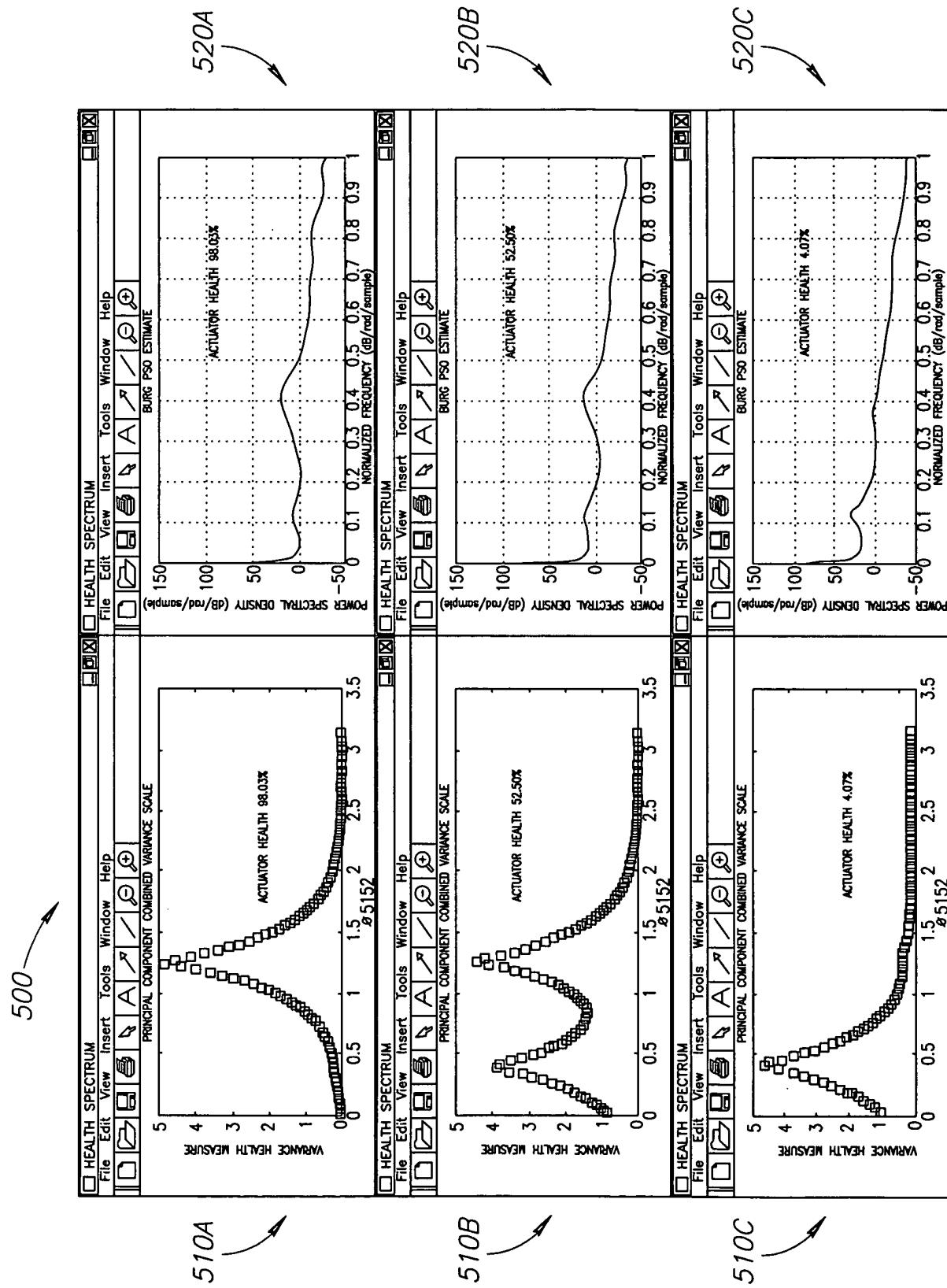


FIG. 5